



COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☒ original
☐ divisional
☐ continuation
☐ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

APPARATUS AND METHOD FOR EXPOSING A SUBSTRATE TO PLASMA RADICALS

SPECIFICATION IDENTIFICATION

The specification of which:

- ☐ is attached hereto
☒ was filed on 04/22/1999, under Serial No. 09/245,601 executed on even date herewith; or
☐ Express Mail No. _____ as Serial No. not yet known
and was amended on _____ (if applicable)
☐ was described and claimed in PCT International Application No. _____
filed on _____ and as amended under PCT Article 19 on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, 1.56.

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America or of any United States Provisional Application(s) listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- ☒ No such applications have been filed
☐ Such applications have been filed as follows:

- A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119

| Country PCT | Application No | Date Filed | Priority Claimed | |
|-------------|----------------|------------|------------------|----|
| | | | YES | NO |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country _____
 Application No _____
 Filing date _____

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

- ☒ No such applications have been filed
☐ Such applications have been filed, as follows:

| Serial No. | Filing Date | Status | | |
|------------|-------------|----------|---------|-----------|
| | | Patented | Pending | Abandoned |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

| | |
|----------------------|-------------------------|
| Peter J. Sgarbossa | Registration No. 25,610 |
| Donald Verplancken | Registration No. 33,217 |
| Lawrence Edelman | Registration No. 25,226 |
| Michael B. Einschlag | Registration No. 29,301 |
| Joseph Bach | Registration No. 37,771 |
| Raymond Kam-On Kwong | Registration No. 37,165 |
| James C. Wilson | Registration No. 35,412 |
| Robert W. Mulcahy | Registration No. 25,436 |

my patent attorneys and/or agents of APPLIED MATERIALS, INC., located at M/S 2-961, 3050 Bowers Avenue, Santa Clara, California 95054, and

I hereby appoint Farzad E. Amini, Reg. No. P42,261; Aloysius T. C. AuYeung, Reg. No. 35,432; William Thomas Babbitt, Reg. No. 39,591; Jordan Michael Becker, Reg. No. 39,602; Bradley J. Berezna, Reg. No. 33,474; Michael A. Bernadecou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; Gregory D. Caldwell, Reg. No. 39,926; Kent M. Chen, Reg. No. 39,630; Lawrence M. Cho, Reg. No. 39,942; Yong S. Choi, Reg. No. P43,324; Thomas M. Coester, Reg. No. 39,637; Roland B. Cortes, Reg. No. 39,152; Barbara Bokanov Courtney, Reg. No. P42,442; Michael Anthony DeSanctis, Reg. No. 39,957; Daniel M. De Vos, Reg. No. 37,813; Tarek N. Fahmi, Reg. No. 41,402; Richard Leon Gregory, Jr., P42,607; James Y. Go, Reg. No. 40,621; David R. Halvorsen, Reg. No. 33,395; Thomas A. Hassing, Reg. No. 36,159; Willmore F. Holbrow III, Reg. No. P41,845; George W. Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Dag H. Jørgensen, Reg. No. 36,722; Stephen J. King, Reg. No. 36,581; Marc J. Manna, Reg. No. 36,594; Paul A. Mendonsa, Reg. No. P42,879; Darren J. Millsken, P42,004; Thinh V. Nguyen, P42,034; Kimberley G. Nobles, Reg. No. 38,255; Michael A. Proksch, Reg. No. P43,021; Ronald W. Reagin, Reg. No. 20,340; Babak Redaiani, P42,096; James H. Salter, Reg. No. 35,668; William W. Schaaf, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Anand Sethuraman, Reg. No. P43,351; Charles E. Shemwell, Reg. No. 40,171; Maria McCormack Sobrino, Reg. No. 31,639; Stanley W. Sokoloff, Reg. No. 25,128; Allan T. Sponseller, Reg. No. 38,318; Judith A. Szepesti, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; George G. C. Tseng, Reg. No. 41,355; Joseph A. Twarowski, Reg. No. 42,191; Lester J. Vincent, Reg. No. 31,460; John Patrick Ward, Reg. No. 40,216; Stephen Wathola, Reg. No. P43,237; Ben J. Yorks, Reg. No. 33,609; and Norman Zafman, Reg. No. 26,250, my attorneys; and Robert Andrew Diehl, Reg. No. 40,992, and Edwin A. Sloane, Reg. No. 34,728, my patent agents, of BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800, and James R. Thein, Reg. No. 31,710, my patent attorney, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send correspondence to:

Patent Counsel, MS 2061
Legal Affairs Dept.
Applied Materials, Inc.
3050 Bowers Avenue
Santa Clara, CA 95054.

Direct telephone calls to:

Michael A. Bernadecou
(408) 720-8300

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or first inventor: GUANGCAIXING

Inventor's signature: [Signature]
Residence: Fremont, CA
Post Office Address: 117 Esparito Avenue
Fremont, CA 94539
U.S.A.

Date: 4/24/99

Country of Citizenship: China (PRC)

Full name of second inventor: GARY E. MINER

Inventor's signature: [Signature]
Residence: Newark, CA
Post Office Address: 48865 Crown Ridge Common
Newark, CA 94569
U.S.A.

Date: 4/24/99

Country of Citizenship: U.S.A.

Full name of **third** inventor: DAVID R. LOPES

Inventor's signature: David R. Lopes

Date: 4-27-99

Residence: Sunnyvale, CA
Post Office Address: 1068 Kildare Avenue
Sunnyvale, CA 94087
U.S.A.

Country of Citizenship: U.S.A.

Full name of **fourth** inventor: SHAR KALURI

Inventor's signature: Shir R. Kaluri

Date: 4-27-99

Residence: Santa Clara, CA
Post Office Address: 1400 Bowe Avenue, #1507
Santa Clara, CA 95051
U.S.A.

Country of Citizenship: India

Full name of **fifth** inventor: RICHARD N. TALBER

Inventor's signature: _____

Date: _____

Residence: Campbell, CA
Post Office Address: 2661 Pescara Court
Campbell, CA 95008
U.S.A.

Country of Citizenship: U.S.A.

(Declaration ends with this page)



Atty Dkt 2616/RTP/LE

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that

This declaration is of the following type.

- ☒ original
- ☐ divisional
- ☐ continuation
- ☐ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled.

TITLE OF INVENTION

"APPARATUS AND METHOD FOR EXPOSING A SUBSTRATE TO PLASMA RADICALS"

SPECIFICATION IDENTIFICATION

The specification of which

- ☐ is attached hereto
- ☒ was filed on **04/22/1999**, under Serial No 09/298,364 executed on even date herewith, or
☐ Express Mail No _____ as Serial No not yet known
and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No _____
filed on _____ and as amended under PCT Article 19 on _____

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, § 1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

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PRIORITY CLAIM (35 U.S.C. § 119)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed

- ☒ No such applications have been filed.
- ☐ Such applications have been filed as follows.

A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119

| <u>Country/PCT</u> | <u>Application No</u> | <u>Date Filed</u> | <u>Priority Claimed</u> |
|--------------------|-----------------------|-------------------|--|
| | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |

B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country _____
 Application No _____
 Filing date _____

PRIORITY CLAIM (35 U.S.C. § 120)

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application

- ☒ No such applications have been filed
- ☐ Such applications have been filed, as follows

| <u>Serial No</u> | <u>Filing Date</u> | <u>Status</u> |
|------------------|--------------------|---|
| | | <input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned |

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith

| | |
|-----------------------|-------------------------|
| Michael L. Sherrard | Registration No. 28,041 |
| Peter J. Sgarbossa | Registration No. 25,610 |
| Donald Verplancken | Registration No. 33,217 |
| Lawrence Edelman | Registration No. 25,226 |
| Michael B. Einschlag | Registration No. 29,301 |
| Joseph Bach | Registration No. 37,771 |
| John Schiffhauer | Registration No. 32,170 |
| Raymond Kam-On Kwong | Registration No. 37,165 |
| James C. Wilson | Registration No. 35,412 |
| Robert W. Mulcahy | Registration No. 25,436 |
| Michael A. Berbadicou | Registration No. 35,934 |

Send correspondence to:

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Legal Affairs Dept.
Applied Materials, Inc.
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Direct telephone calls to:

Michael A. Berbadicou
408-720-8300

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of **sole or first** inventor: **GUANGCAI XING**

| | | | |
|----------------------|---|------------------------|-------|
| Inventor's signature | _____ | Date | _____ |
| Residence | FREMONT, CA 94539 | | |
| Post Office Address | 117 ESPARITO AVENUE FREMONT, CA 94539 U S A | | |
| | | Country of Citizenship | PRC |

Full name of **second** inventor: **GARY E. MINER**

| | | | |
|----------------------|--|------------------------|-------|
| Inventor's signature | _____ | Date | _____ |
| Residence | NEWARK, CA 94560 | | |
| Post Office Address | 4959 SEVERN PLACE NEWARK, CA 94560 U S A | | |
| | | Country of Citizenship | USA |

Full name of **third** inventor: **DAVID R. LOPES**

Inventor's signature _____ Date _____
Residence SUNNYVALE, CA 94087
Post Office Address 1068 KILDARE AVENUE
SUNNYVALE, CA 94087
U S A Country of Citizenship USA

Full name of **fourth** inventor **SITA R. KALURI**

Inventor's signature _____ Date _____
Residence SANTA CLARA, CA 95051
Post Office Address 1400 BOWE AVENUE, #1507
SANTA CLARA, CA 95051
U S A Country of Citizenship INDIA

Full name of **fifth** inventor **RICHARD N. TAUBER**

Inventor's signature *Richard N. Tauber* Date *April 1974*
Residence FRESNO, CA 93720
Post Office Address 1247 E. FOXHILL DRIVE #121
FRESNO, CA 93720
U S A Country of Citizenship USA

(Declaration ends with this page)